

AMENDMENTS TO THE CLAIMS

The claims in this listing will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) A film scanner for reading an image formed on a film, said film scanner comprising:

an imaging device that senses a part of ~~said the~~ the image;

a transport table that supports ~~said the~~ the film;

a single stepper motor that moves at least one of said imaging device and said transport table in a predetermined direction, so that said imaging device can sense ~~the whole of said~~ an entire image; and

a motor drive circuit that pulse-drives said single stepper motor in steps, said motor drive circuit enabling micro-stepping control of the stepper motor, said motor drive circuit drives said single stepper motor in increments of a first step when said image is read in a pre-scan, and drives said single stepper motor in increments of second steps, smaller than said first step, by said micro-stepping control when said image is read in a main-scan.

2. (Canceled)

3. (Currently Amended) A film scanner according to claim ~~[[2]]~~ 1, wherein said ~~minute-step~~ second steps in said main-scan is set to $1/n$ of said ~~basic~~ first step, ~~where n is (n being a natural number of 2 or more)~~ more.

4. (Currently Amended) A film scanner according to claim 3, wherein said motor drive circuit is configured to enable switching to drive in a 2-2 phase excitation mode in ~~basic full-steps~~ whole first steps, to drive in a 1-2 phase excitation mode in half first steps, to drive in a W1-2 phase excitation mode in quarter first steps, and to drive in 2W1-2 phase excitation mode in one eighth first steps.

5. (Original) A film scanner according to claim 4, wherein said motor drive circuit drives said stepper motor in said 2-2 phase excitation mode in said pre-scan, selects one of said 1-2 phase excitation mode, said W1-2 phase excitation mode, and said 2W1-2 phase excitation mode to drive said stepper motor in said main-scan.

6. (Currently Amended) A film scanner according to claim 1, wherein said transport table is provided with a detachable ~~detachably with a~~ film holder for holding ~~said the~~ film, a position of said film holder with respect to said transport table being moveable to change said image to be read.

7. (Currently Amended) A film scanner according to claim 1, further comprising a rack provided at said transport table along said predetermined direction, and a pinion attached to an output shaft of said stepper motor and configured to engage with said rack.

8. (Currently Amended) A film scanner provided with an imaging device for performing a main-scan of a film on which an image is formed to scan ~~said the~~ image and a scanning mechanism for moving ~~said the~~ film in a sub-scan direction perpendicular to ~~said~~

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~~the~~ main-scan direction with respect to said imaging device, ~~characterized in that~~, said scanning mechanism ~~is provided with~~ comprising a transport table for supporting ~~said the~~ film and transporting ~~the film in the~~ it in said sub-scan direction and a transport mechanism ~~for making that moves~~ said transport table ~~move~~ in ~~said the~~ sub-scan direction, said transport mechanism ~~is provided with~~ comprising a single stepper motor as a source of drive power and a motor drive circuit for pulse driving said single stepper motor in steps, and said motor drive circuit is being configured to enable micro-stepping control of the single stepper motor, said motor drive circuit driving said single stepper motor in increments of a first step when a pre-scan operation is performed, and driving said single stepper motor in increments of second steps, smaller than said first step, by said micro-stepping control when a main-scan operation is performed.

9. (Canceled)

10. (New) The film scanner according to claim 5, wherein said motor drive circuit selects one of said excitation modes in accordance with a resolution of said main scanning operation.

11. (New) The film scanner according to claim 8, said motor drive circuit being configured to drive said single stepper motor in different excitation modes during the main scan operation in accordance with a resolution of said main scanning operation.

12. (New) The film scanner according to claim 1, said motor drive circuit being configured to drive said single stepper motor at one of a plurality of different speeds during the main scan.

13. (New) The film scanner according to claim 8, said motor drive circuit being configured to drive said single stepper motor at one of a plurality of different speeds during the main scan.

14. (New) A film scanner for reading an image formed on a film, said film scanner comprising:

an imaging device;

a transport table;

a single stepper motor that moves at least one of said imaging device and said transport table in a predetermined direction; and

a motor drive circuit that drives said single stepper motor, said motor drive circuit drives said single stepper motor in increments of a first step when a pre-scan operation is performed, and drives said single stepper motor in increments of second steps, smaller than said first step, when a main-scan operation is performed.

15. (New) The film scanner according to claim 14, said motor drive circuit being configured to drive said single stepper motor at one of a plurality of different speeds during the main scan.

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16. (New) The film scanner according to claim 14, said motor drive circuit being configured to drive said single stepper motor in one of a plurality of excitation modes depending on a resolution in a main scanning operation.